

## SEQUENCE LISTING

&lt;110&gt; NATIONAL CHENG KUNG UNIVERSITY

&lt;120&gt; GENES CONTROLLING FLORAL DEVELOPMENT IN ORCHID

&lt;130&gt; none

&lt;160&gt; 24

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 917

&lt;212&gt; DNA

&lt;213&gt; Phalaenopsis equestris

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (76)..(759)

&lt;400&gt; 1

acgcgggata gtagaggaag aagaagagaa gggttgagaa cagaggaaaa caggggagaa 60

caggggaaga gagag atg ggg agg ggg aag ata gag ata aaa aag ata gag 111  
 Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu  
 1 5 10

aat ccg acg aac agg caa gtt aca tat tct aag agg aga gtt ggg ata 159  
 Asn Pro Thr Asn Arg Gln Val Thr Tyr Ser Lys Arg Arg Val Gly Ile  
 15 20 25

ctg aag aag gcc aag gag ctc act gtt ctc tgt gat gct cag gtc tct 207  
 Leu Lys Lys Ala Lys Glu Leu Thr Val Leu Cys Asp Ala Gln Val Ser  
 30 35 40

ctc atc atg ttc tca agc aca gga aag ttg gct gat tac tgc agc ccc 255  
 Leu Ile Met Phe Ser Ser Thr Gly Lys Leu Ala Asp Tyr Cys Ser Pro  
 45 50 55 60

tct act gat att aag ggg ata tat gag agg tac cag gtt gtg act gga 303  
 Ser Thr Asp Ile Lys Gly Ile Tyr Glu Arg Tyr Gln Val Val Thr Gly  
 65 70 75

atg gat cta tgg aat gct cag tat gag agg atg cag aat acg ctg aag 351

Met Asp Leu Trp Asn Ala Gln Tyr Glu Arg Met Gln Asn Thr Leu Lys	
80 85 90	
cat ctg aat gag att aac caa aac ctg agg aag gag att agg agg agg	399
His Leu Asn Glu Ile Asn Gln Asn Leu Arg Lys Glu Ile Arg Arg Arg	
95 100 105	
aag ggg gag gaa ttg gag ggc atg gac ata aag caa ctg cgc ggt ctt	447
Lys Gly Glu Glu Leu Glu Gly Met Asp Ile Lys Gln Leu Arg Gly Leu	
110 115 120	
gag caa act ttg gaa gag tct ctt aga att gtt agg cat aga aag tat	495
Glu Gln Thr Leu Glu Glu Ser Leu Arg Ile Val Arg His Arg Lys Tyr	
125 130 135 140	
cat gtg atc gcc aca caa act gac act tac aag aaa aag ctt aaa agc	543
His Val Ile Ala Thr Gln Thr Asp Thr Tyr Lys Lys Lys Leu Lys Ser	
145 150 155	
aca agg gaa act tac cgc gct cta ata cat gaa ctg gat atg aaa gag	591
Thr Arg Glu Thr Tyr Arg Ala Leu Ile His Glu Leu Asp Met Lys Glu	
160 165 170	
gag aat ccg aac tac ggt ttt aat gta gaa aac cag agt aga att tat	639
Glu Asn Pro Asn Tyr Gly Phe Asn Val Glu Asn Gln Ser Arg Ile Tyr	
175 180 185	
gaa aat tcg att cca atg gtg aat gag tgt cct cag atg ttt tcc ttt	687
Glu Asn Ser Ile Pro Met Val Asn Glu Cys Pro Gln Met Phe Ser Phe	
190 195 200	
agg gtt gtt cat ccg aat cag ccc aat ctg ctt ggt tta ggt tat gaa	735
Arg Val Val His Pro Asn Gln Pro Asn Leu Leu Gly Leu Gly Tyr Glu	
205 210 215 220	
tca cat gat ctt agc ctt gca taa tgagcagtaa tattatgatt ttattgtatt	789
Ser His Asp Leu Ser Leu Ala	
225	
tttattttat gtttgaaact ttagaattat gagatggggg atctattcag agagaactgt	849
cctttaattt gattttcccg ttgtttcct cttcatgtcc agtgaaattt ttgttttgt	909
tttttcgg	917

<210> 2  
<211> 227  
<212> PRT  
<213> Phalaenopsis equestris

<400> 2

Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu Asn Pro Thr Asn  
1 5 10 15

Arg Gln Val Thr Tyr Ser Lys Arg Arg Val Gly Ile Leu Lys Lys Ala  
20 25 30

Lys Glu Leu Thr Val Leu Cys Asp Ala Gln Val Ser Leu Ile Met Phe  
35 40 45

Ser Ser Thr Gly Lys Leu Ala Asp Tyr Cys Ser Pro Ser Thr Asp Ile  
50 55 60

Lys Gly Ile Tyr Glu Arg Tyr Gln Val Val Thr Gly Met Asp Leu Trp  
65 70 75 80

Asn Ala Gln Tyr Glu Arg Met Gln Asn Thr Leu Lys His Leu Asn Glu  
85 90 95

Ile Asn Gln Asn Leu Arg Lys Glu Ile Arg Arg Arg Lys Gly Glu Glu  
100 105 110

Leu Glu Gly Met Asp Ile Lys Gln Leu Arg Gly Leu Glu Gln Thr Leu  
115 120 125

Glu Glu Ser Leu Arg Ile Val Arg His Arg Lys Tyr His Val Ile Ala  
130 135 140

Thr Gln Thr Asp Thr Tyr Lys Lys Lys Leu Lys Ser Thr Arg Glu Thr  
145 150 155 160

Tyr Arg Ala Leu Ile His Glu Leu Asp Met Lys Glu Glu Asn Pro Asn  
 165 170 175

Tyr Gly Phe Asn Val Glu Asn Gln Ser Arg Ile Tyr Glu Asn Ser Ile  
 180 185 190

Pro Met Val Asn Glu Cys Pro Gln Met Phe Ser Phe Arg Val Val His  
 195 200 205

Pro Asn Gln Pro Asn Leu Leu Gly Leu Gly Tyr Glu Ser His Asp Leu  
 210 215 220

Ser Leu Ala  
 225

<210> 3  
 <211> 980  
 <212> DNA  
 <213> Phalaenopsis equestris

<220>  
 <221> CDS  
 <222> (196)..(864)

<400> 3  
 acgccacaac cctttggcca ttgcctgcta atggaaaccc agctgccact ttttccttcc 60  
 ccagcccttat ataccttcag ttactctctt ctgcctccat ttttataagc atacttttcc 120  
 ccttttcttt cccatatcaa tctcaactcc ttgccttctc ctgctgcttt gggaagcaga 180  
 gcaagaaaga gaacc atg ggg agg ggg aag atc gag ata aag aag att gag 231  
 Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu  
 1 5 10  
 aac cct aca aac agg cag gtt act tac tct aag agg agg gct ggg atc 279  
 Asn Pro Thr Asn Arg Gln Val Thr Tyr Ser Lys Arg Arg Ala Gly Ile  
 15 20 25

atg aaa aag gcg agc gag ctc acg gtt ctc tgt gat gct cag ctc tcc	327
Met Lys Lys Ala Ser Glu Leu Thr Val Leu Cys Asp Ala Gln Leu Ser	
30 35 40	
ctt gtt atg ttc tcc agc acc ggc aag ttc tcc gag tat tgt agt cct	375
Leu Val Met Phe Ser Ser Thr Gly Lys Phe Ser Glu Tyr Cys Ser Pro	
45 50 55 60	
acc acc gat acc aag agt gta tat gat cgt tac cag cag gtg tcc ggc	423
Thr Thr Asp Thr Lys Ser Val Tyr Asp Arg Tyr Gln Gln Val Ser Gly	
65 70 75	
ata aat tta tgg agc gag cag tac gag aag atg cag aat acg ttg aat	471
Ile Asn Leu Trp Ser Glu Gln Tyr Glu Lys Met Gln Asn Thr Leu Asn	
80 85 90	
cat ttg aag gag ata aac cac aac ttg agg agg gag ata agg cag agg	519
His Leu Lys Glu Ile Asn His Asn Leu Arg Arg Glu Ile Arg Gln Arg	
95 100 105	
atg ggc gag gat ctt gaa ggg cta gaa atc aaa gaa ctg cgt ggt ctt	567
Met Gly Glu Asp Leu Glu Gly Leu Glu Ile Lys Glu Leu Arg Gly Leu	
110 115 120	
gag caa aat atg gac gag gcc cta aag ctt gta agg aat cga aag tat	615
Glu Gln Asn Met Asp Glu Ala Leu Lys Leu Val Arg Asn Arg Lys Tyr	
125 130 135 140	
cac gtc atc agc acc cag aca gat aca ttc aaa aaa aag ttg aaa aac	663
His Val Ile Ser Thr Gln Thr Asp Thr Phe Lys Lys Lys Leu Lys Asn	
145 150 155	
tct caa gaa acc cac agg aac tta ctc cgg gag ctg gaa act gag cac	711
Ser Gln Glu Thr His Arg Asn Leu Leu Arg Glu Leu Glu Thr Glu His	
160 165 170	
gcc gtc tac tac gtg gat gat gat cca aac aac tat gat ggc gcg ctt	759
Ala Val Tyr Tyr Val Asp Asp Asp Pro Asn Asn Tyr Asp Gly Ala Leu	
175 180 185	
gca ctt gga aat ggg gct tcc tac ttg tat tca ttt cgt acc caa cca	807
Ala Leu Gly Asn Gly Ala Ser Tyr Leu Tyr Ser Phe Arg Thr Gln Pro	
190 195 200	
agc cag ccg aac ctt cag gga gtt gga tat gtc cct cat gat cta cgt	855
Ser Gln Pro Asn Leu Gln Gly Val Gly Tyr Val Pro His Asp Leu Arg	

205                      210                      215                      220  
 ctc gcc tga tcttttatta tctgcatgcc aactgcctaa ttatatctat                      904  
 Leu Ala

gtatctgatg ttcttacgct tacaagtagg gtctagcact gcaatcgaat tcccgcggcc                      964  
 gccagcggcc ggactc                      980

<210> 4  
 <211> 222  
 <212> PRT  
 <213> Phalaenopsis equestris

<400> 4

Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu Asn Pro Thr Asn  
 1                      5                      10                      15

Arg Gln Val Thr Tyr Ser Lys Arg Arg Ala Gly Ile Met Lys Lys Ala  
                     20                      25                      30

Ser Glu Leu Thr Val Leu Cys Asp Ala Gln Leu Ser Leu Val Met Phe  
                     35                      40                      45

Ser Ser Thr Gly Lys Phe Ser Glu Tyr Cys Ser Pro Thr Thr Asp Thr  
                     50                      55                      60

Lys Ser Val Tyr Asp Arg Tyr Gln Gln Val Ser Gly Ile Asn Leu Trp  
 65                      70                      75                      80

Ser Glu Gln Tyr Glu Lys Met Gln Asn Thr Leu Asn His Leu Lys Glu  
                     85                      90                      95

Ile Asn His Asn Leu Arg Arg Glu Ile Arg Gln Arg Met Gly Glu Asp  
                     100                      105                      110

Leu Glu Gly Leu Glu Ile Lys Glu Leu Arg Gly Leu Glu Gln Asn Met  
 115 120 125

Asp Glu Ala Leu Lys Leu Val Arg Asn Arg Lys Tyr His Val Ile Ser  
 130 135 140

Thr Gln Thr Asp Thr Phe Lys Lys Lys Leu Lys Asn Ser Gln Glu Thr  
 145 150 155 160

His Arg Asn Leu Leu Arg Glu Leu Glu Thr Glu His Ala Val Tyr Tyr  
 165 170 175

Val Asp Asp Asp Pro Asn Asn Tyr Asp Gly Ala Leu Ala Leu Gly Asn  
 180 185 190

Gly Ala Ser Tyr Leu Tyr Ser Phe Arg Thr Gln Pro Ser Gln Pro Asn  
 195 200 205

Leu Gln Gly Val Gly Tyr Val Pro His Asp Leu Arg Leu Ala  
 210 215 220

<210> 5  
 <211> 1036  
 <212> DNA  
 <213> *Phalaenopsis equestris*

<220>  
 <221> CDS  
 <222> (216)..(887)

<400> 5  
 acgcggggca ctggcttcac ttctttccct gcggcaatgg ccaactattc ccggttaacta 60  
 tcgctttttgc gtttccagtt ctataaaagg aatccccgcc agagcttttt cttcttatag 120  
 agctttcttc ctcattcttc ccgttcgtca acatcactaa tcactgctgt ttcagtagac 180  
 tgggagagct aggagtggag aaaagagatt tgaag atg ggg agg ggg aag ata 233

	Met	Gly	Arg	Gly	Lys	Ile	
	1				5		
gag att aag aag ata gag aat ccg act aat cgg cag gtg acc tac tcg							281
Glu Ile Lys Lys Ile Glu Asn Pro Thr Asn Arg Gln Val Thr Tyr Ser							
aag agg aga gct ggg att atg aag aag gcg agg gag atc act gtt ctc							329
Lys Arg Arg Ala Gly Ile Met Lys Lys Ala Arg Glu Ile Thr Val Leu							
tgc gat gct gag gtt tcg ctt atc atg ttc tcg agt act ggg aag ttt							377
Cys Asp Ala Glu Val Ser Leu Ile Met Phe Ser Ser Thr Gly Lys Phe							
tct gag tac tgt agc cct tcg acg gaa acg aag aag gtt ttt gaa cgc							425
Ser Glu Tyr Cys Ser Pro Ser Thr Glu Thr Lys Lys Val Phe Glu Arg							
tac cag cag gta tct ggc att aac ttg tgg agc tcg cag tac gag aag							473
Tyr Gln Gln Val Ser Gly Ile Asn Leu Trp Ser Ser Gln Tyr Glu Lys							
atg ctg aat acg ctt aac cat tcg aag gag atc aat cgc aat ctg agg							521
Met Leu Asn Thr Leu Asn His Ser Lys Glu Ile Asn Arg Asn Leu Arg							
agg gaa gta agg cag agg atg ggg gaa gat ctt gag gga ctg gat atc							569
Arg Glu Val Arg Gln Arg Met Gly Glu Asp Leu Glu Gly Leu Asp Ile							
aag gaa ctg cgc ggt ctt gag caa aac att gat gag gca ttg aag cta							617
Lys Glu Leu Arg Gly Leu Glu Gln Asn Ile Asp Glu Ala Leu Lys Leu							
gta cga aat aga aaa tat cat gta atc agt act caa acg gac acc tac							665
Val Arg Asn Arg Lys Tyr His Val Ile Ser Thr Gln Thr Asp Thr Tyr							
aag aag aag ttg aag aac tcc caa gaa aca cac cgg aac tta atg cac							713
Lys Lys Lys Leu Lys Asn Ser Gln Glu Thr His Arg Asn Leu Met His							
gaa ttg gaa atc gtt gag gac cac cca gtg tat ggg ttc cac gag gat							761
Glu Leu Glu Ile Val Glu Asp His Pro Val Tyr Gly Phe His Glu Asp							



tca agc aat tat gag ggt gtt ctt gct ctt gca aat gac ggg tct cac 809  
 Ser Ser Asn Tyr Glu Gly Val Leu Ala Leu Ala Asn Asp Gly Ser His  
           185                                  190                                  195

atg tat gcc ttc cgg gtg caa ccc aac caa caa aat ctt caa gga acg 857  
 Met Tyr Ala Phe Arg Val Gln Pro Asn Gln Gln Asn Leu Gln Gly Thr  
           200                                  205                                  210

gga tat agc tct cac gat ctt cgc ctc gct tgatataatc gtgtaagtag 907  
 Gly Tyr Ser Ser His Asp Leu Arg Leu Ala  
           215                                  220

tacaatcaca tatgcagtct tcattttatt gttcgcaaatt tatgctctca gtagctggta 967

tctaattgtag aactaactac tgcaacttgc tcttatcttg ctatgtgtga ttctgtggta 1027

atgtggact 1036

<210> 6

<211> 224

<212> PRT

<213> Phalaenopsis equestris

<400> 6

Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu Asn Pro Thr Asn  
           1                                  5                                  10                                  15

Arg Gln Val Thr Tyr Ser Lys Arg Arg Ala Gly Ile Met Lys Lys Ala  
                                   20                                  25                                  30

Arg Glu Ile Thr Val Leu Cys Asp Ala Glu Val Ser Leu Ile Met Phe  
           35                                  40                                  45

Ser Ser Thr Gly Lys Phe Ser Glu Tyr Cys Ser Pro Ser Thr Glu Thr  
           50                                  55                                  60

Lys Lys Val Phe Glu Arg Tyr Gln Gln Val Ser Gly Ile Asn Leu Trp  
           65                                  70                                  75                                  80

Ser Ser Gln Tyr Glu Lys Met Leu Asn Thr Leu Asn His Ser Lys Glu  
85 90 95

Ile Asn Arg Asn Leu Arg Arg Glu Val Arg Gln Arg Met Gly Glu Asp  
100 105 110

Leu Glu Gly Leu Asp Ile Lys Glu Leu Arg Gly Leu Glu Gln Asn Ile  
115 120 125

Asp Glu Ala Leu Lys Leu Val Arg Asn Arg Lys Tyr His Val Ile Ser  
130 135 140

Thr Gln Thr Asp Thr Tyr Lys Lys Lys Leu Lys Asn Ser Gln Glu Thr  
145 150 155 160

His Arg Asn Leu Met His Glu Leu Glu Ile Val Glu Asp His Pro Val  
165 170 175

Tyr Gly Phe His Glu Asp Ser Ser Asn Tyr Glu Gly Val Leu Ala Leu  
180 185 190

Ala Asn Asp Gly Ser His Met Tyr Ala Phe Arg Val Gln Pro Asn Gln  
195 200 205

Gln Asn Leu Gln Gly Thr Gly Tyr Ser Ser His Asp Leu Arg Leu Ala  
210 215 220

<210> 7  
<211> 898  
<212> DNA  
<213> Phalaenopsis equestris

<220>  
<221> CDS  
<222> (123)..(782)

<400> 7  
 tcgcaacacg aggcgctgtc ggcgagtcgg gttgtttggg aatgcagccc taatcgggcg 60  
 gtaaattccg tccaaggcta aatacgggcg agagaccgat agcgaacaag taccgcgagg 120  
 ga atg ggg aga ggg aag ata gag ata aag aag ata gag aat cca aca 167  
 Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu Asn Pro Thr  
 1 5 10 15  
 agc agg caa gta acg tat tca aag agg cga ctt ggg atc atg aag aag 215  
 Ser Arg Gln Val Thr Tyr Ser Lys Arg Arg Leu Gly Ile Met Lys Lys  
 20 25 30  
 gca gag gaa ctc aca gtg ctc tgc gac gct caa ctc tca ctc atc atc 263  
 Ala Glu Glu Leu Thr Val Leu Cys Asp Ala Gln Leu Ser Leu Ile Ile  
 35 40 45  
 ttc tca agc tcc ggc aag tta gct gat ttc tgc agc cct tcc aca gac 311  
 Phe Ser Ser Ser Gly Lys Leu Ala Asp Phe Cys Ser Pro Ser Thr Asp  
 50 55 60  
 gtt aaa gat ata gtt gag agg tac caa aat gtt acc gga att gat ata 359  
 Val Lys Asp Ile Val Glu Arg Tyr Gln Asn Val Thr Gly Ile Asp Ile  
 65 70 75  
 tgg gat gcg caa tat cag agg atg cag aac act ctg agg aat ctc agg 407  
 Trp Asp Ala Gln Tyr Gln Arg Met Gln Asn Thr Leu Arg Asn Leu Arg  
 80 85 90 95  
 gag att aat cgt aat ctt cag aag gag ata aga cag agg aag ggg gag 455  
 Glu Ile Asn Arg Asn Leu Gln Lys Glu Ile Arg Gln Arg Lys Gly Glu  
 100 105 110  
 aat ctg gaa ggg ttg ggc gtt aaa gag ctg cgc ggt ctt gag caa aaa 503  
 Asn Leu Glu Gly Leu Gly Val Lys Glu Leu Arg Gly Leu Glu Gln Lys  
 115 120 125  
 ttg gag gag tcg gtt aag att gtt cgg cag aga aag tat cat gtg atc 551  
 Leu Glu Glu Ser Val Lys Ile Val Arg Gln Arg Lys Tyr His Val Ile  
 130 135 140  
 gct acg caa aca gac act tgc agg aaa aag ctc aaa agc agc aga caa 599  
 Ala Thr Gln Thr Asp Thr Cys Arg Lys Lys Leu Lys Ser Ser Arg Gln  
 145 150 155

ata tac aga gcc cta acg cat gaa ctg cag aag ctg gac gaa gag aat 647  
 Ile Tyr Arg Ala Leu Thr His Glu Leu Gln Lys Leu Asp Glu Glu Asn  
 160 165 170 175

caa ccg tgc agt ttt ctc gta gaa gat cta agc tgc atc tat gac agc 695  
 Gln Pro Cys Ser Phe Leu Val Glu Asp Leu Ser Cys Ile Tyr Asp Ser  
 180 185 190

tca atc tca atg gca aat cgg ctg cac cgg agt gag cca aat gtg cag 743  
 Ser Ile Ser Met Ala Asn Arg Leu His Arg Ser Glu Pro Asn Val Gln  
 195 200 205

aaa gta gtt cgt gag tgt cat gag ttt ggc ttt gat tga cctgcaattt 792  
 Lys Val Val Arg Glu Cys His Glu Phe Gly Phe Asp  
 210 215

tctattactt tgtgttaca tgtggatttg ttttcatggc ttaacatcat aggattgtat 852

aaactatttt tttgtgtgca atgtttaagt tctgatcttg atatcc 898

<210> 8

<211> 219

<212> PRT

<213> Phalaenopsis equestris

<400> 8

Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu Asn Pro Thr Ser  
 1 5 10 15

Arg Gln Val Thr Tyr Ser Lys Arg Arg Leu Gly Ile Met Lys Lys Ala  
 20 25 30

Glu Glu Leu Thr Val Leu Cys Asp Ala Gln Leu Ser Leu Ile Ile Phe  
 35 40 45

Ser Ser Ser Gly Lys Leu Ala Asp Phe Cys Ser Pro Ser Thr Asp Val  
 50 55 60

Lys Asp Ile Val Glu Arg Tyr Gln Asn Val Thr Gly Ile Asp Ile Trp  
 65 70 75 80

Asp Ala Gln Tyr Gln Arg Met Gln Asn Thr Leu Arg Asn Leu Arg Glu  
85 90 95

Ile Asn Arg Asn Leu Gln Lys Glu Ile Arg Gln Arg Lys Gly Glu Asn  
100 105 110

Leu Glu Gly Leu Gly Val Lys Glu Leu Arg Gly Leu Glu Gln Lys Leu  
115 120 125

Glu Glu Ser Val Lys Ile Val Arg Gln Arg Lys Tyr His Val Ile Ala  
130 135 140

Thr Gln Thr Asp Thr Cys Arg Lys Lys Leu Lys Ser Ser Arg Gln Ile  
145 150 155 160

Tyr Arg Ala Leu Thr His Glu Leu Gln Lys Leu Asp Glu Glu Asn Gln  
165 170 175

Pro Cys Ser Phe Leu Val Glu Asp Leu Ser Cys Ile Tyr Asp Ser Ser  
180 185 190

Ile Ser Met Ala Asn Arg Leu His Arg Ser Glu Pro Asn Val Gln Lys  
195 200 205

Val Val Arg Glu Cys His Glu Phe Gly Phe Asp  
210 215

<210> 9  
<211> 25  
<212> DNA  
<213> Artificial

<220>  
<223> PeMADS2 specific primer

<400> 9  
tctctctgaa tagatcccc atctc 25

<210> 10  
<211> 25  
<212> DNA  
<213> Artificial

<220>  
<223> PeMADS3 specific primer

<400> 10  
gcagtgctag accctacttg taagc 25

<210> 11  
<211> 27  
<212> DNA  
<213> Artificial

<220>  
<223> PeMADS4 specific primer

<400> 11  
gctatatccc gttccttgaa gattttg 27

<210> 12  
<211> 25  
<212> DNA  
<213> Artificial

<220>  
<223> PeMADS5 specific primer

<400> 12  
tcctatgatg ttaagccatg aaaac 25

<210> 13  
<211> 21  
<212> DNA  
<213> Artificial

<220>

<223> nested PeMADS2-specific primer

<400> 13

tgattcggat gaacaaccct a

21

<210> 14

<211> 21

<212> DNA

<213> Artificial

<220>

<223> nested PeMADS3-specific primer

<400> 14

aggaagcccc atttccaagt g

21

<210> 15

<211> 21

<212> DNA

<213> Artificial

<220>

<223> nested PeMADS4-specific primer

<400> 15

gtgcattaag ttccggtgtg t

21

<210> 16

<211> 21

<212> DNA

<213> Artificial

<220>

<223> nested PeMADS5-specific primer

<400> 16

tgcacatttg gctcactccg g

21

<210> 17

<211> 18

<212> DNA

<213> Artificial

<220>

<223> PeMADS2-specific internal forward primer

<400> 17

gaaacttacc gcgctcta

18

<210> 18

<211> 25

<212> DNA

<213> Artificial

<220>

<223> PeMADS2-specific internal reverse primer

<400> 18

tctctctgaa tagatccccc atctc

25

<210> 19

<211> 18

<212> DNA

<213> Artificial

<220>

<223> PeMADS3-specific internal forward primer

<400> 19

ctctcaagaa acccacag

18

<210> 20

<211> 25

<212> DNA

<213> Artificial

<220>

<223> PeMADS3-specific internal reverse primer

<400> 20

gcagtgctag accctacttg taagc

25

<210> 21

<211> 18



<212> DNA  
<213> Artificial  
  
<220>  
<223> PeMADS4-specific internal forward primer  
  
<400> 21  
gaggaccacc cagtgtat 18

<210> 22  
<211> 19  
<212> DNA  
<213> Artificial  
  
<220>  
<223> PeMADS4-specific internal reverse primer  
  
<400> 22  
cacagaatca cacatagca 19

<210> 23  
<211> 18  
<212> DNA  
<213> Artificial  
  
<220>  
<223> PeMADS5-specific internal forward primer  
  
<400> 23  
caaacagaca cttgcagg 18

<210> 24  
<211> 25  
<212> DNA  
<213> Artificial  
  
<220>  
<223> PeMADS5-specific internal reverse primer  
  
<400> 24  
tcctatgatg ttaagccatg aaaac 25

(US5764.ST25.txt)